## **CLAIMS**

## What is claimed is:

- 1. A method for making a termination for a wire rope having a first end and a second end, comprising the steps of
- 5 a. inserting the first end into a mold, wherein the mold comprises a mold opening;
  - b. placing a crucible with a crucible opening over the mold wherein the mold opening is in fluid communication with the crucible opening;
  - c. placing a separator in the crucible over the crucible opening;
  - d. adding an exothermic metallic material to the crucible;
- e. placing a baffle on top of the crucible;
  - f. igniting the exothermic metallic material forming a molten material which liquefies the separator in the crucible; and
  - g. flowing the molten material into the mold around the first end forming a termination capable of sustaining a higher break force than the wire rope.
- The method of claim 1, wherein the wire rope is an excavation wire rope comprising a diameter between ¼ inches and 7 inches.
  - 3. The method of claim 1, wherein the wire rope is a single strand rope or a multi-strand rope.
  - 4. The method of claim 1, wherein the wire rope is adapted for use with mining equipment.
- The method of claim 1, wherein the mold forms the termination into a male or a female connection.

- 6. The method of claim 5, further comprising the step of inserting the male connection into a socket.
- 7. The method of claim 6, wherein the socket with an opening comprising a first connector end adapted to engage mining equipment; and a second connector end to engage the termination on the wire rope.
- 8. The method of claim 1 wherein the exothermic metallic material comprises a powdered metallic alloy.
- 9. The method of claim 8, wherein the powdered metallic alloy comprises an aluminum, aluminum alloy, a copper, a copper alloy, oxide thereof, and combinations thereof.
- 10 10. The method of claim 1, further comprising the step of cleaning the first end of the wire rope forming a cleaned end prior to insertion in the mold.
  - 11. The method of claim 10, wherein the step of cleaning the wire rope is performed using a torch, using chemicals to remove dirt, mechanical cleaning, and combinations thereof.
  - 12. The method of claim 1, wherein the separator is a low carbon metal plate.
- 15 13. The method of claim 1 wherein the separator is steel, alloys of steel, and combinations thereof.
  - 14. A method for making a termination for a wire rope having a first end and a second end, comprising the steps of
    - a. inserting the first end into a mold, wherein the mold comprises a mold opening;
    - b. pouring a liquid adhesive into the mold through the mold opening; and
    - c. allowing the liquid adhesive to cure forming a termination capable of sustaining a higher break force than the wire rope.

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- 15. The method of claim 16, wherein the wire rope is an excavation wire rope comprising a diameter between ¼ inches and 7 inches.
- 16. The method of claim 15, wherein the wire rope is a single strand rope or a multi-strand rope.
- 5 17. The method of claim 15, wherein the wire rope is adapted for use with mining equipment.
  - 18. The method of claim 15, wherein the mold forms the termination into a male or female connection.
  - 19. The method of claim 15, further comprising the step of inserting the male connection into a socket.
- 10 20. The method of claim 19, wherein the socket comprises an equipment connector adapted on a first connector end to engage mining equipment and a second connector end to engage the termination.
  - 21. The method of claim 15, wherein the liquid adhesive is an epoxy.
- The method of claim 21, further comprising the step of heating the liquid adhesive to room temperature prior to using the liquid adhesive.
  - 23. The method of claim 15, further comprising the step of cleaning the first end of the wire rope forming a cleaned end prior to insertion in the mold.
  - 24. The method of claim 23, wherein the step of cleaning the wire rope is performed using a torch, using chemicals to remove dirt, mechanical cleaning, and combinations thereof.